

What is claimed is:

1. An image synthesizing apparatus for
synthesizing two images, comprising:

coefficient setting means for setting a blending
coefficient α ($0 \leq \alpha \leq 1$) at a specified value when a
value of a specific picture element component included in
picture element components A of a first image is a
predetermined value; and

arithmetic means for performing an operation on
said picture element components A, picture element
components B of a second image, and said blending
coefficient α as follows:

$$A * \alpha + B * (1 - \alpha)$$

and performing said operation on all the picture
element components A and the picture element components B
of a picture element that has the specific picture
element component representing the predetermined value by
using said blending coefficient α set by said coefficient
setting means.

2. An image synthesizing apparatus as claimed in
claim 1,

wherein a value that is outside a specified range
of values that can be assumed by said specific picture
element component and does not affect display of said

Spec'd

first image is recorded in said specific picture element component as said predetermined value for setting said blending coefficient α at said specified value in said operation.

3. An image synthesizing apparatus as claimed in claim 1,

wherein specific picture element component is a luminance component.

4. An image synthesizing apparatus as claimed in claim 1,

wherein said coefficient setting means sets said blending coefficient α at zero when said specific picture element component is zero, and sets said blending coefficient α at unity when said specific picture element component is other than zero.

5. An image synthesizing apparatus as claimed in claim 1,

wherein said coefficient setting means sets said blending coefficient α at zero when said specific picture element component is zero, and sets said blending coefficient α at a specified value that satisfies $0 < \alpha \leq 1$ when said specific picture element component is other than zero.

6. An image synthesizing apparatus as claimed in

Claim 1

wherein data of said first image and data of said second image are data in an ITU-R601 format having a luminance component and a color difference component as said picture element components A and said picture element components B, respectively.

7. An image synthesizing method for synthesizing two images,

wherein an operation is performed on picture element components A of a first image, picture element components B of a second image, and a blending coefficient α ($0 \leq \alpha \leq 1$) as follows:

$$A * \alpha + B * (1 - \alpha)$$

and when a specific picture element component included in said picture element components A represents a predetermined value, said blending coefficient α is set at a specified value in said operation on all the picture element components A and the picture element components B of a picture element that has the specific picture element component representing the predetermined value.